



ST JOSEPH'S INSTITUTION
END OF YEAR EXAMINATION 2018
(YEAR 1)

GEOGRAPHY

28 September 2018
1 hour 45 mins
(0800 – 0945 hr)

Additional Materials: Writing Paper
Rubrics
Topographic Map

READ THESE INSTRUCTIONS FIRST

Write your class, index number and name on all the work you hand in.
Write in dark blue or black pen on both sides of the paper.
You may use a soft pencil for any diagrams.
Do not use paper clips, glue or correction fluid.

Section A: Answer **ALL** questions.
Section B: Answer **ALL** questions.
Section C: Answer the question.

Start **ALL Sections** on a new sheet of **Writing Paper**.

At the end of the examination, hand in **ALL Sections separately**.
The number of marks is given in brackets [] at the end of each question or part question.

This document consists of **10** printed pages, including the cover page and Rubrics.

[TURN OVER]

SECTION A: (10 marks)

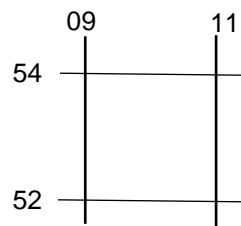
Topographical Map Reading

Answer **ALL** questions.

1. Study the map extract of Rusape, Zimbabwe.

(a) State the scale of the map. [1]

(b) Identify **two** physical features located in the grid squares as shown below. [2]



(c) Identify the main economic activity found around Rusape. Give map evidence to support your answer. [2]

(d) Identify the types of roads found in grid square 0849. [2]

(e) Look at the bridge where the railway crosses the Rusape River.

(i) State the six-figure grid reference of the bridge. [1]

(ii) In which direction is Chenaka School (0047) from the bridge? [1]

(f) Study the main settlement of Rusape. Medical services like a hospital and ~~hotel~~ are marked on the map. Identify **one** other service or function found at the settlement. [1]

SECTION B: (32 marks)

Data Response Questions (4 x 8 marks)

Answer **ALL** questions.

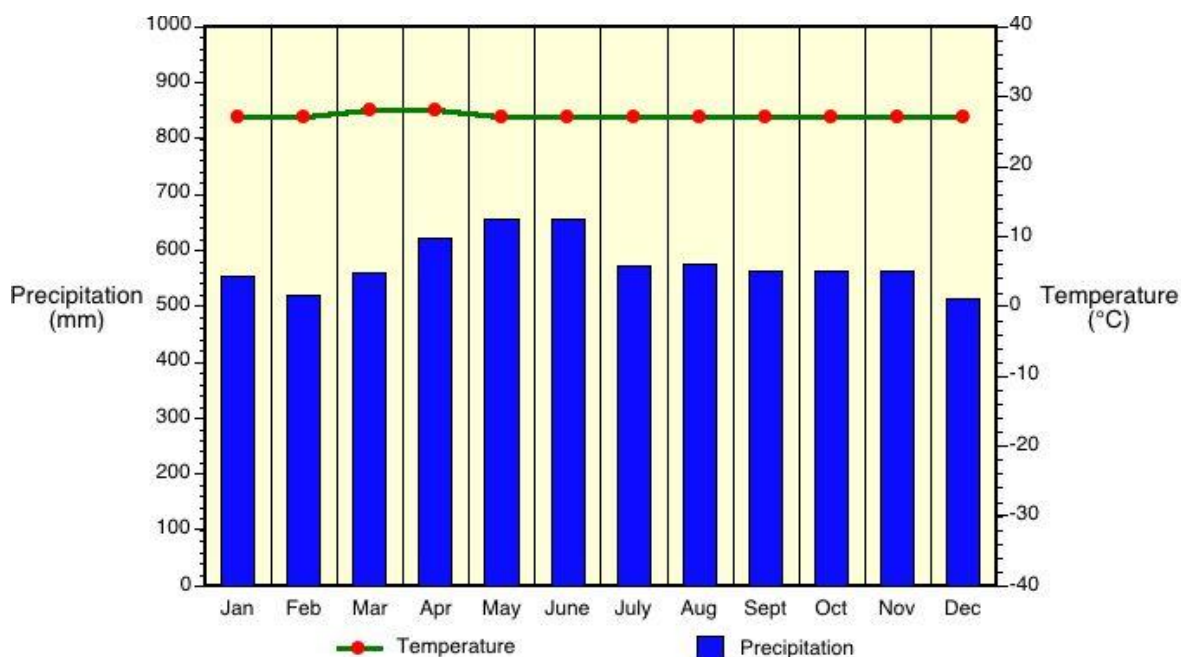
2. Figures 1A and 1B show the temperatures and precipitation of Andagoya, Colombia over a period of a year.

Fig. 1A

Andagoya*, Colombia (Latitude – 5°N, Elevation – 65 metres)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temp. (°C)	27	27	28	28	27	27	27	27	27	27	27	27
Precip (mm)	554	519	557	620	655	655	572	574	561	563	563	512

Fig. 1B



Source: http://www.physicalgeography.net/fundamentals/images/andagoya_Af.jpg

- (a) (i) Describe the temperature of Andagoya, Colombia. [3]
- (ii) Account for the temperature described in (a)(i). [4]
- (b) Given the distribution of precipitation and the geographical location of Andagoya, Colombia, what is the most commonly occurring rain? [1]

3.(a) Figures 2A, 2B and 2C show 3 different weathering processes.

Fig. 2A

FREEZE-THAW ACTION

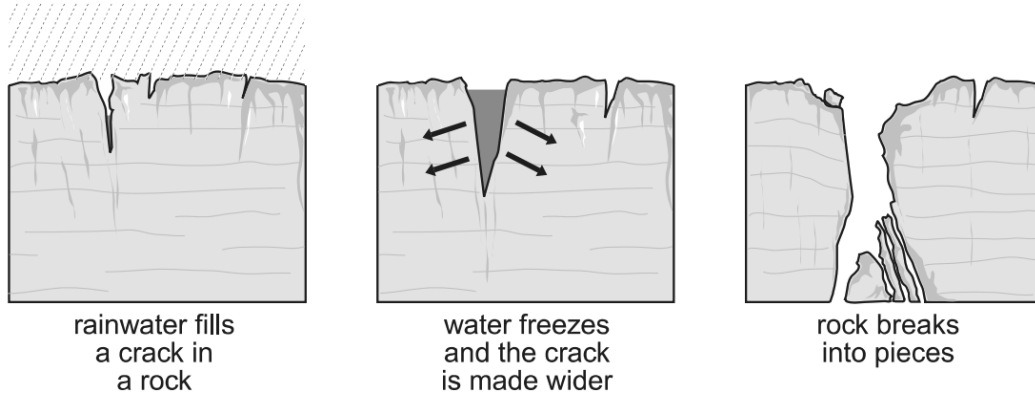


Fig. 2B

EXPANSION AND CONTRACTION

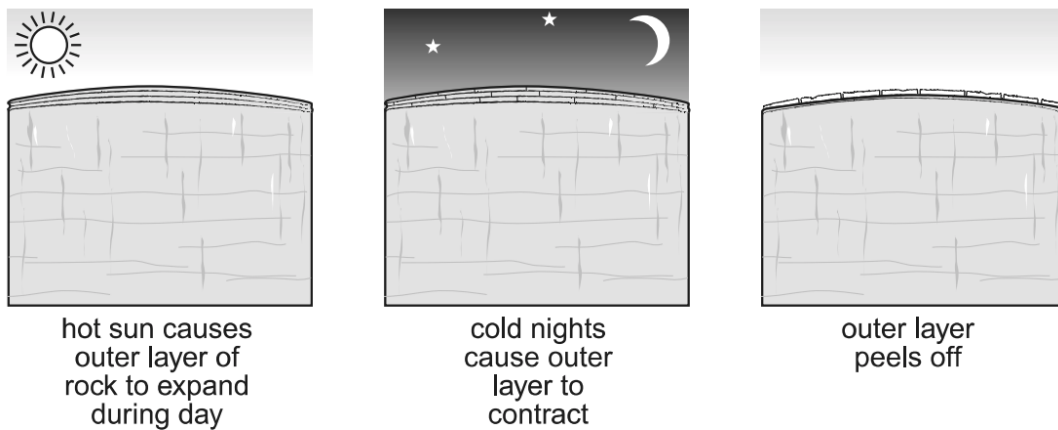
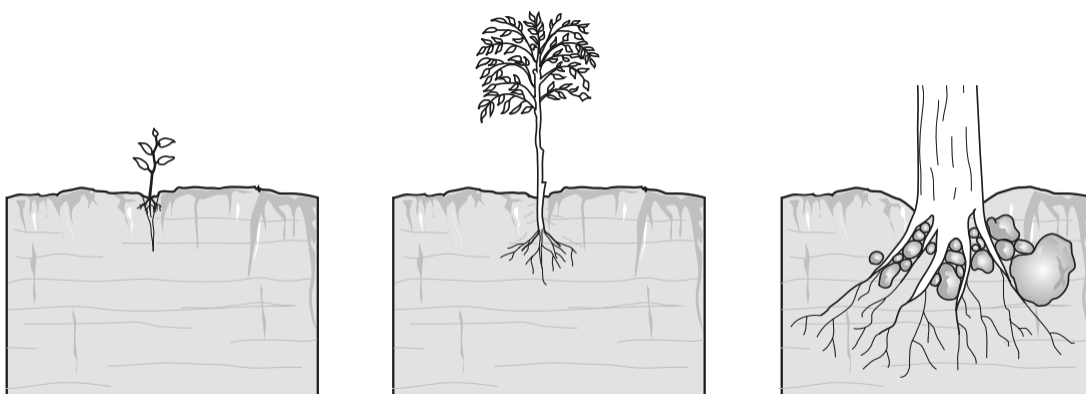


Fig. 2C

GROWTH OF ROOTS



Source: May/June 2009 IGCSE Geography Exam

(i) What is 'weathering'? [1]

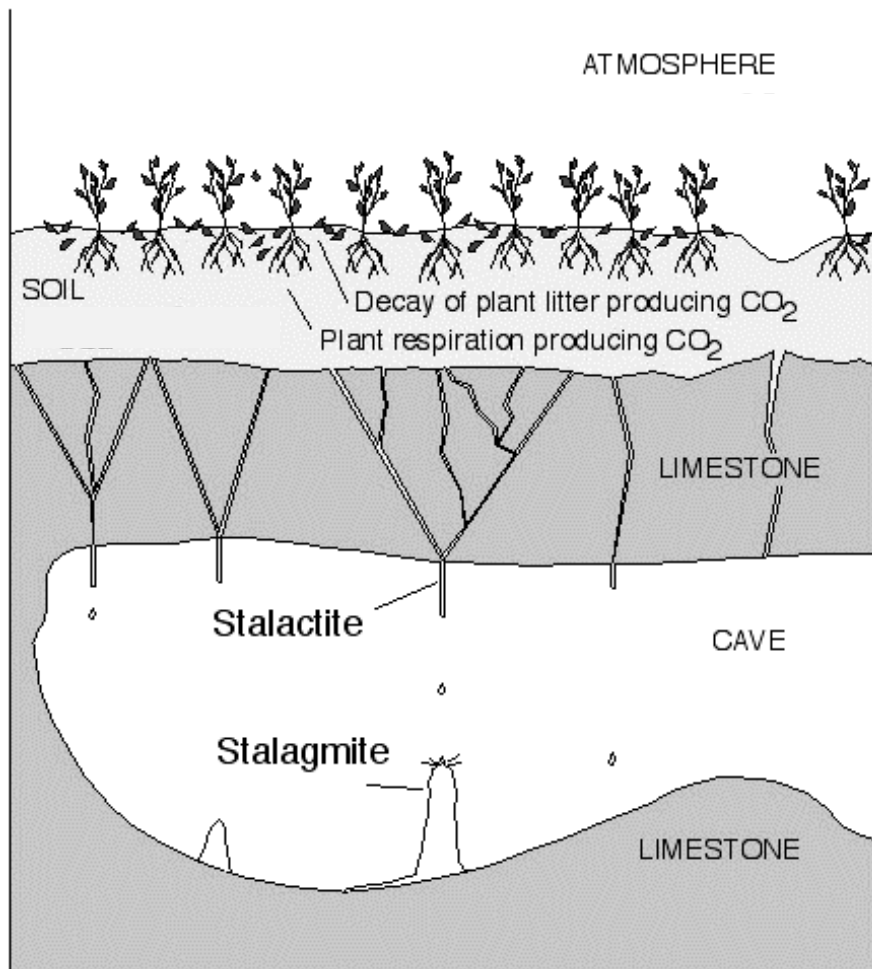
(ii) Which weathering process is most likely to occur in [2]

A: Tropical deserts

B: Tropical rainforests?

(b) Figure 3 shows a limestone cave.

Fig. 3



Source: <http://www.gly.uga.edu/railsback/1121KarstSpeleoPptn.jpeg>

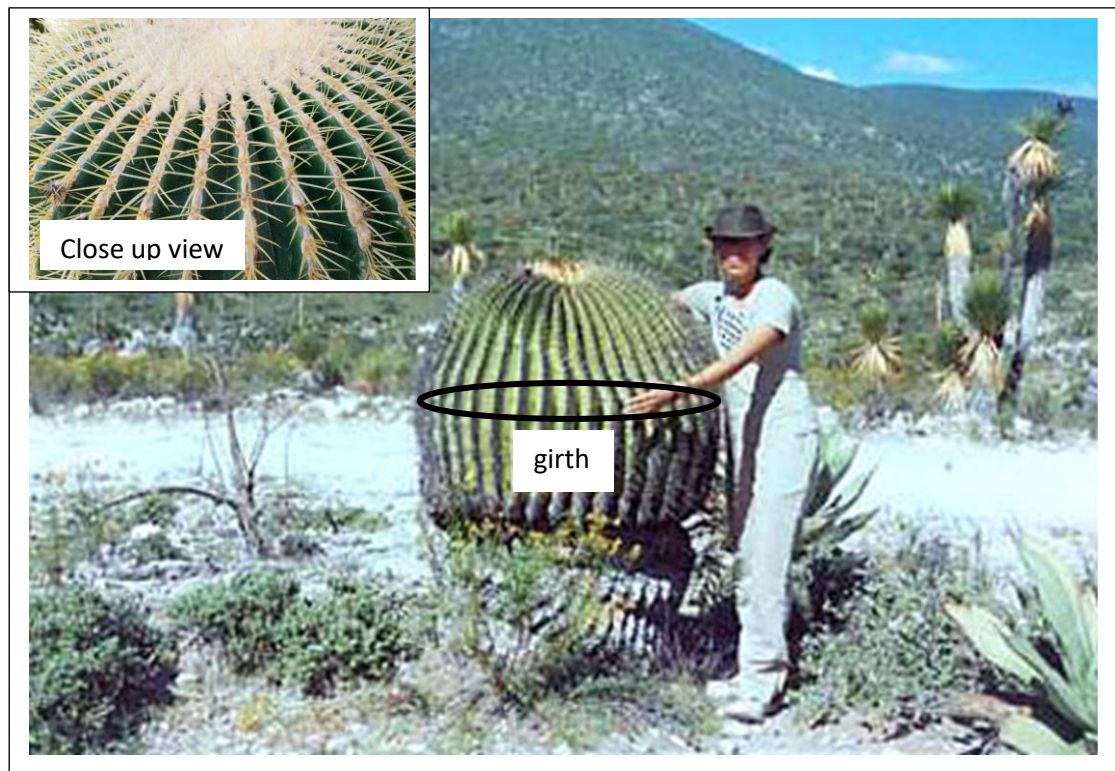
(i) What type of rock is limestone categorised as? [1]

(ii) State the type of weathering process that caused the formation of stalactite and stalagmite. [1]

(iii) Explain how stalactite and stalagmite are formed. [3]

4. Figures 4A and 4B show two different types of natural vegetation.

Fig. 4A



Source: <http://www.mexicolore.co.uk>, Inset close up: <http://www.picdrome.com>

Fig. 4B

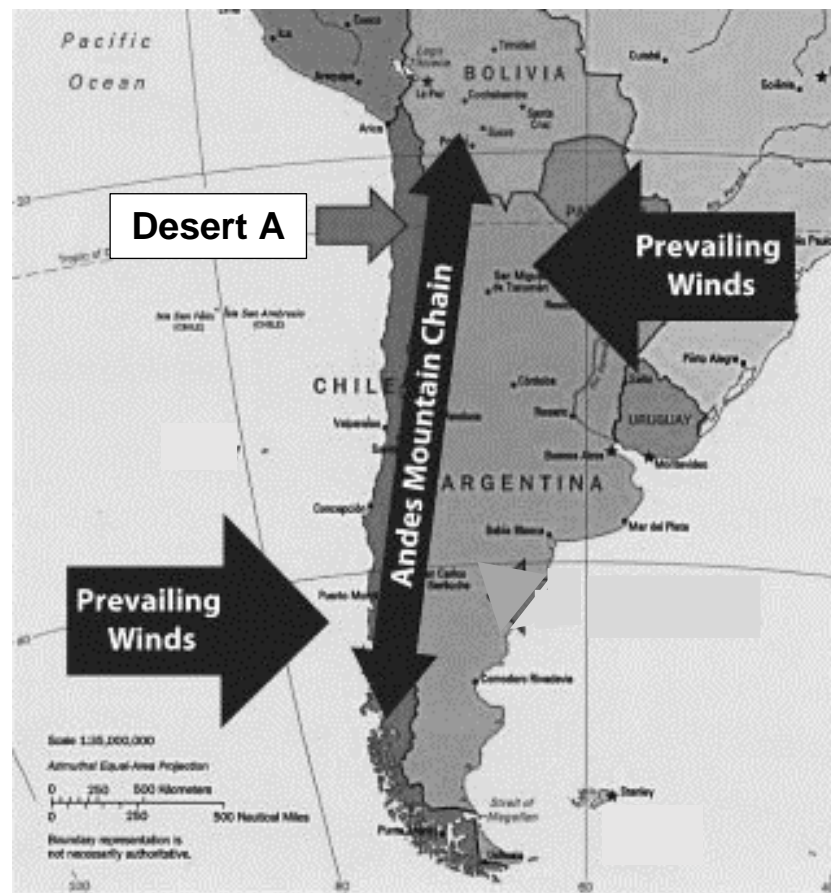


Source: <https://florafaunaweb.nparks.gov.sg>

- (a) Identify the types of climatic environment where you can find the plant species in Figures 4A and 4B. (Label your answer with the figure number.) [2]
- (b) List **two physical** differences between the plant species in Figures 4A and 4B. [2]
- (c) (i) Describe the climatic conditions in which plant species in Figure 4A is found and explain why the plant species in Figure 4A looks the way it does. [2]
- (ii) Describe the climatic conditions in which plant species in Figure 4B is found and explain why the plant species in Figure 4B looks the way it does. [2]

5.(a) Figure 5 shows the geographical locations of two deserts.

Fig. 5



Source: <https://www.pmfias.com/desert-climate-hot-desert-climate-mid-latitude-desert-climate/>

- (i) Identify Desert A. [1]
- (ii) With the use of a well-labelled diagram, explain how Desert A is formed. [4]

(b) Figure 6 shows a physical feature in a desert.

Fig. 6



Source: <https://science.howstuffworks.com/environmental/earth/geology/>

Describe how wind would have shaped the physical feature.

[3]

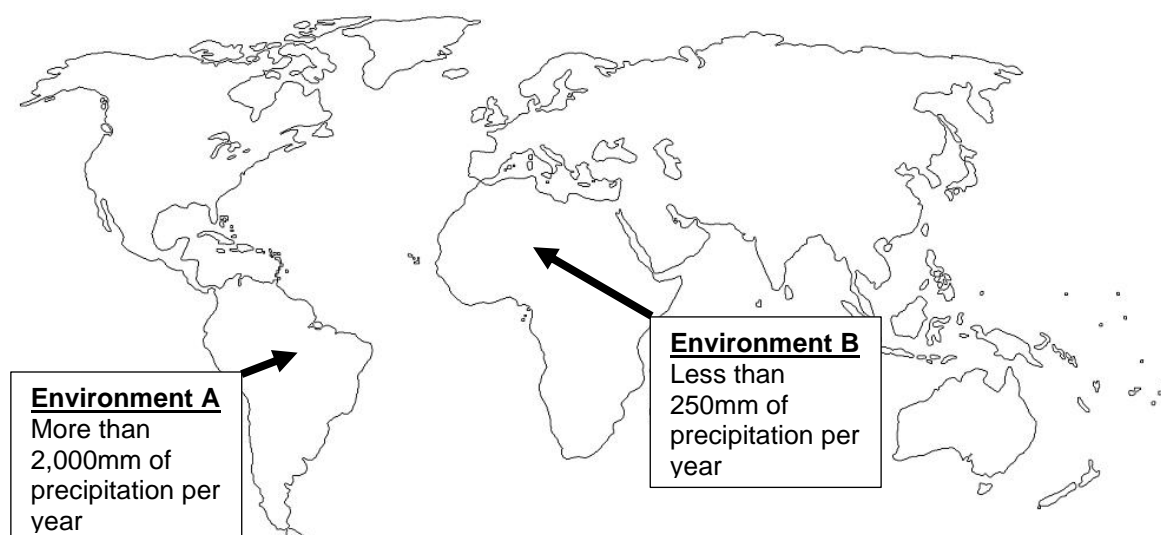
Section C: (8 marks)

Open-Response Question

Answer the question on the **Writing Paper** provided.

6. Figure 7 shows the total annual precipitation of two environments.

Fig. 7



Source: <http://eduteach.co/wp-content/uploads/2018/06/world-map-black-an-white-luxury-world-map-black-and-white-image-picture-of-world-map-in-black-and-of-world-map-black-an-white.jpg>

With reference to Figure 7, explain how the spatial locations of the two environments impact the total annual precipitation received. [8]

Level of Response Rubrics for Open-Response Question

	AO1 Knowledge/ Understanding	AO2 Application/Analysis	AO3 Expression
Level 1	No or little relevant knowledge and/or understanding, which is largely superficial or of marginal relevance; inappropriate case studies	Little attempt at application/analysis	Poor terminology, difficult to understand
Level 2	Relevant knowledge and understanding but with some omissions, case studies and examples well chosen	Some attempt at application; competent answer although not well-developed and tends to be descriptive	Acceptable terminology Some forms of organisation Can follow argument
Level 3	Accurate, specific and well detailed knowledge and good understanding; examples and case studies are well chosen and developed	Detailed application; well-developed answer that cover most or all aspects of question	Geographical terminology used appropriately Organised responses